

An Enhanced Model to Increase Awareness on Phishing Attacks for Vocational Students

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Abstract:

Information security for connected devices with network system is under threat due to fraudulent activities, DoD, and malware. Phishing attacks are a major fraud activity which can be controlled by human factors. This research is aimed to increase the information security awareness among vocational students in Malaysia. An enhanced knowledge-attitude-behavior model has been developed to increase the awareness level on phishing attacks. In this model, the existing knowledge of sample of students is measured and repeated after educational treatment. The model hypothesis is validated and by the collected data on the students and the model output is thoroughly analyzed. The proposed model demonstrates to be an enhanced model in strengthening the information security technology and increasing awareness among students.

Keywords: Fraudulent Activities; Phishing; Information Security Awareness; Knowledge-Attitude-Behavior Model.

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